

Application No. 09/545,283

Applicant(s): Boyle et al.

Title: Methods and Materials Relating to Novel C-type Lectin Receptor-like Polypeptides
and Polynucleotides

Clean Version of the Drawings

BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH MOUSE MACROPHAGE C-TYPE LECTIN

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Score = 412 (145.0 bits), Expect = 1.2e-37, P = 1.2e-37

Identities = 85/215 (39%), Positives = 119/215 (55%), Frame = +1

SEQ ID NO. 4 5 EEPQDREKGILWMFQLKVMWSMAVVSVTILLSSVCFIVSSVVPHMEMYSKTVKRLSKLREYQQY 64

C-Type Lectin Receptor-Like:
EE Q + KG QL AVVSI LS CF + +V H++ T + KL +Y

Macrophage C-Type Lectin: 4 EESQMKSKGTRHPQLIPCVFAVVSILLSACFISTCLVTHHYFLRWTRGSVVKLSDY--- 60

SEQ ID NO. 4 65 HSSLTCVME---GKDIEDWSSCCPTPWTSFQSSSCYFISTGMOSWTKSQKNCSYMGGADLVV 120

C-Type Lectin Receptor-Like:
H+ +TC+ E G W+CCP W +FQS+CYF Q+W +S++NCS M + LV

Macrophage C-Type Lectin: 61 HTRVTCTIREEPQPGATGGTWTCCPVSMRAFQSNCYFPLNDQTWHESERNCGMSMSSHVLT 120

SEQ ID NO. 4 121 INTTEEHDFIHLNKRNSSSYFLGLSSHPRGRHHMQWVDHTPYNENVTFWHSGEPENN-LDER 179

C-Type Lectin Receptor-Like:
INT E +F+ L + SYFLGL+ WQWVD TP+N + FW GE N+ ++E

Macrophage C-Type Lectin: 121 INTEAEQNFTVQLLDKRFSYFLGLADENVEGQWQWVDKTPFNPHTFWERGESNDFMEED 180

SEQ ID NO. 4 180 CALINFRSSQEWGMNDLICHVPHK\$ICEMKKIYLYMKYS 218

C-Type Lectin Receptor-Like:
C ++ ++W WND CH + IC++ I K S

Macrophage C-Type Lectin: 181 CVVL-VHVHEKWWNDPCHFEVRICKLPGITFNWKPS 218

FIG. 1

BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH DENDRITIC CELL IMMUNORECEPTOR

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Score = 529 (186.2 bits), Expect = 4.8e-50, P = 4.8e-50

Identities = 93/188 (49%), Positives = 130/188 (69%), Frame = +1

SEQ ID NO. 4 26 VVSILLISVCFTVSSSVPHNFMSKTVKRLSKLREYQQYHSSLTCVMEGKDIED--WSSC 83

C-Type Lectin Receptor-Like:
P W SF S+CYFIST SW S+K+C+ M A L+VINT EE DFI NL+ S+YF+G

Dendritic Cell Immunoreceptor: 51 LIFFLLAISFFIAFVI----FPQQYSQQLLEKKTTKELLVHTTLECVKKNMPVEETAWSSC 106

SEQ ID NO. 4 84 PTPWTTSFQSSCYFISTGMQSWTKSQKNCSVMGADLWVINTTEEHDFIITHNLKRNSSYFLG 143

C-Type Lectin Receptor-Like:
P W SF S+CYFIST SW S+K+C+ M A L+VINT EE DFI NL+ S+YF+G

Dendritic Cell Immunoreceptor: 107 PKNNKSFSNSCYFISTESASWQDSEKDCARMEAHLLVINTQEEQDFIFQNLQEEESAYFVG 166

SEQ ID NO. 4 144 LSHPRGRRRHWQWVDHTPYNENVTFWHSGEPPNLDERCAIIINFRSS-QEWGMNDIHCHVPH 202

C-Type Lectin Receptor-Like:
LS P G+RHWQWVD TPYNE+ TFWH EP++ +ERC ++NFR S + WGWND++C P

Dendritic Cell Immunoreceptor: 167 LSDPEGQRHWQWVDQTPYNESSTFWHPREPSDPNERCVVLFNRKSPKRWMGNDVNCLGPQ 226

SEQ ID NO. 4 203 KSLCEMKKIIYI 213
C-Type Lectin Receptor-Like:
+S+CEM KI++

Dendritic Cell Immunoreceptor: 227 RSVCEMMKIIHL 237

FIG. 2

BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH C-TYPE LECTIN DDB27

Score = 529 (186.2 bits), Expect = 4.8e-50, P = 4.8e-50

Identities = 93/188 (49%), Positives = 130/188 (69%), Frame = +1

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
DDB27:

26 VVSILLLSVCFTVSSVVPHNFMSKTVKRLSKLREYQQYHSSLTCMEGKDIED--WSSCC 83
++ LLL++ F ++ V+ + K + L K + H+L CV + +E+ WSSCC
51 LIFFLLIAISFFIAFVI---FFQKYSQQLLEKKTTKELVHTTLECVKKNMPVEETAWSSCC 106

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
DDB27:

84 PTPWTSFQSSCYFISTGMQSWTIKSQKNC SVMGADLVVINTTEEHDFI IHNLKRNNSYFLG 143
P W SF S+CYFIST SW S+K+C+ M A L+VINT EE DFI NL+ S+YF+G
107 PKNWKSFSSSNCYFISTESASWQDSEKDCAAMEAHLLVINTQEEQDFIFQNLQEEESAYFVG 166

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
DDB27:

144 LSHPRGRRRHWQWVDHTPYNENVTFWHSGEPMNLDERCAIINFRSS-QEWGWNDIHCHVPH 202
LS P G+RHWQWVD TPYNE+ TFWH EP++ +ERC ++NFR S + WGWND+C P
167 LSDPEGQRHWQWVDQTYPNESSTFWHPREPSPDPNERCVVLNFRKSPKRWMGNDVNCLGPQ 226

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
DDB27:

203 KSICEMKKIYI 213
+S+CEM KI++
227 RSVCEMMKITHL 237

FIG. 3

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BLASTP ALIGNMENT OF C-TYPE (CALCIUM DEPENDENT, CARBOHYDRATE RECOGNITION DOMAIN) LECTIN RECEPTOR-LIKE, SUPERFAMILY MEMBER 6

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Score = 448 (157.7 bits), Expect = 1.8e-41, P = 1.8e-41

Identifies = 92/209 (44%), Positives = 130/209 (62%), Frame = +1

SEQ ID NO. 4	3	PEEEP-QD-REKGLWWFQLRKWMSMAAVSILLISVCFIVSSSVFHNFMISRN	3
C-Type Lectin Receptor-Like:	P E+P +D R+ G	L + S+ ++ +LL++ F V+ ++	YS+ ++ +
Motif C-type:	29 PREKPIRLRKPQSP--SLLITSLML-LLLIAITFLVAFIILYFQ-KYSQQLLEEKKAAN	84	

Mouse C-Type:

SEQ ID NO. 4 C-Type Lectin Receptor-like: 61 YQQYHSSLTCTVMEGKDIED--WSSCCPTPWTISFQSSSCYFIST--GMQSMWIKSQKNCSVMGA LI
 H+ L C +ED WSSCCP W F S CY + T SW KS+NCS MGA

Mouse C-Type:

SEQ ID NO. 4
C-Type Lectin Receptor-Like:

Mouse C-Type

177 DERCAITNFRSSQEWGMNDIHCVPHKSICEMNN 211
 +E+CA I +R WGMDI C + KS+C+MKKI

202 NEKCATIIYRWKFGWGNIDSCSLRQKRSVUQMRRK 238

4